



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

52142 7590 02/01/2011

FLETCHER YODER (MICRON TECHNOLOGY, INC.)
P.O. BOX 692289
HOUSTON, TX 77269-2289

EXAMINER

BROPHY, MATTHEW J

ART UNIT

PAPER NUMBER

2191

DATE MAILED: 02/01/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/449,782

11/26/1999

JAMES MCKEETH

MICS:0194

6698

TITLE OF INVENTION: COMMAND LINE OUTPUT REDIRECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	05/02/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

52142 7590 02/01/2011

FLETCHER YODER (MICRON TECHNOLOGY, INC.)
P.O. BOX 692289
HOUSTON, TX 77269-2289

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/449,782	11/26/1999	JAMES MCKEETH	MICS:0194	6698

TITLE OF INVENTION: COMMAND LINE OUTPUT REDIRECTION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	05/02/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
BROPHY, MATTHEW J	2191	717-114000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/449,782	11/26/1999	JAMES MCKEETH	MICS:0194	6698
52142	7590	02/01/2011	EXAMINER	
FLETCHER YODER (MICRON TECHNOLOGY, INC.) P.O. BOX 692289 HOUSTON, TX 77269-2289			BROPHY, MATTHEW J	
			ART UNIT	PAPER NUMBER
			2191	
DATE MAILED: 02/01/2011				

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 445 day(s). Any patent to issue from the above-identified application will include an indication of the 445 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No.	Applicant(s)	
	09/449,782	MCKEETH, JAMES	
	Examiner	Art Unit	
	MATTHEW J. BROPHY	2191	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the appeal brief of 10/26/2010.
2. ☒ The allowed claim(s) is/are 1-5,7,10-15,18-21, 23 and 24, renumbered 1-19.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
|--|---|

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Robert Manware on January 17, 2011.

The application has been amended as follows:

Art Unit: 2191

Claims

1. (Currently Amended) A method comprising: invoking, by an application, a call of a command line utility, the application providing an identifier in the call of the command line utility, wherein the command line utility is a utility executable from a command line prompt; receiving output from the command line utility wherein receiving output from the command line utility comprises receiving output without creating a temporary file; storing the command line utility output in a system registry database at a location identified by the identifier; and retrieving, by the application, the command line utility output from the system registry at the location identified by the identifier
2. (Previously Presented) The method of claim 1, wherein providing the identifier comprises providing an identifier that identifies one or more entries in the system registry database.
3. (Previously Presented) The method of claim 2, wherein providing the identifier comprises providing a root key identifier.
4. (Previously Presented) The method of claim 3, wherein providing the root key identifier comprises providing a sub-key identifier.
5. (Previously Presented) The method of claim 1, wherein the system registry database comprises an operating system registry database.
7. (Previously Presented) The method of claim 1, wherein providing the identifier

Art Unit: 2191

comprises providing an identifier indicating the system registry database.

10. (Previously Presented) The method of claim 1, wherein the act of receiving output from a command line utility comprises receiving output directly from the command line output utility.

11. (Previously Presented) The method of claim 1, wherein the act of receiving output from a command line utility comprises receiving output from the command line output utility through a subsequent command line output routine.

12. (Previously Presented) The method of claim 1, wherein the act of storing comprises associating each line of command line utility output with a line identifier in the system registry database.

13. (Previously Presented) The method of claim 12, further comprising setting each line identifier to a value corresponding to a position of that line in the command utility output.

14. (Previously Presented) The method of claim 12, further comprising setting a default value of the provided identifier to equal the total number of command utility output lines stored in the system registry database.

15. (Currently Amended) A program storage device, readable by a computer, comprising instructions stored on the program storage device for causing the computer to:

cause an application to invoke a call of a command line utility, the application providing an identifier in the call of the command utility, wherein the command line

Art Unit: 2191

utility is a utility executable from a command line prompt; receive output from the command line utility, wherein receiving output from the command line utility comprises receiving output without creating a temporary file;;

store the command line utility output in a system registry database at a location identified by the identifier; and

cause the application to retrieve the command line utility output from the system registry database or shared system memory at the location identified by the identifier.

18. (Previously Presented) The program storage device of claim 15 wherein the instructions to receive output comprise instructions to receive one or more lines of output from the command line utility, and the instructions to store further comprise instructions to store each of said one or more lines of output in the system registry database.

19. (Previously Presented) The program storage device of claim 18 wherein the instructions to store further comprise instructions to associate a unique identifier with each of the one or more lines of output stored in the system registry database.

20. (Previously Presented) The program storage device of claim 18 wherein the instructions to store further comprise instructions to set a value associated with the received identifier in the system registry database or shared system memory equal to the number of lines of output stored in the system registry database.

21. (Currently Amended) A computer system, comprising: a processor;
a command line utility, wherein the command line utility is a utility executable from a

Art Unit: 2191

command line prompt;

an application executable on the processor, the application to call the command line utility, the application to provide an identifier in the call;

a system registry database having a location identified by the identifier, the location identified by the identifier to store an output of the command line utility,

wherein the location identified by the identifier stores the output of the command line utility without using a temporary file,

the application to retrieve the command line utility output from the location identified by the identifier.

23. (Previously Presented) The method of claim 1 wherein the command line utility comprises a first command line utility, and wherein invoking the call by the application comprises invoking a call to pipe output of a second command line utility to the first command line utility,

wherein storing the command line utility output comprises storing the command line utility output of the first command line utility.

24. (Previously Presented) The program storage device of claim 15, wherein the command line utility comprises a first command line utility, and. wherein invoking the call by the application

comprises invoicing a call to pipe output of a second command line utility to the first command line utility,

wherein storing the command line utility output comprises storing the command line utility output of the first command line utility.

Art Unit: 2191

25. (Previously Presented) The computer system of claim 21, wherein the command line utility comprises a first command line utility, the system further comprising a second command line utility, the application to invoke a call that causes output of the second command line utility to be piped to the first command line utility, the location identified by the identifier to store output of the first command line utility.

26. (Canceled).

27. (Canceled).

28. (Canceled).

2. The following is an examiner's statement of reasons for allowance:

Applicant's remarks in the appeal brief page 15 are persuasive with regards to the interpretation of DIR. as a temporary file. The combination of references, therefore, does not teach all the elements of the claims "without the creation of a temporary file."

The closest prior art of record, "Hill" and "Hlvana" teach the manipulation of data in a registry via a command line utilities. Hill teaches the use of basic commands in the Windows system, while Hlvana teaches the use of a command script which interacts with environmental variables that are stored in a Windows System registry database. They do not, however, teach all elements of the independent claims as amended herein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion:

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MATTHEW J. BROPHY whose telephone number is 571-270-1642. The examiner can normally be reached on Monday-Thursday 8:00AM-5:00 PM EST.

Art Unit: 2191

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wei Zhen can be reached on (571) 272-3708. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJB

1/17/2011

/Wei Y Zhen/
Supervisory Patent Examiner, Art Unit 2191